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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,859	08/16/2007	Lohr Joachim	L7725.06120	2204
52989	7590	10/27/2008		
Dickinson Wright PLLC			EXAMINER	
James E. Ledbetter, Esq.				VIANA DI PRISCO, GERMAN
International Square			ART UNIT	PAPER NUMBER
1875 Eye Street, N.W., Suite 1200				2617
Washington, DC 20006				
			MAIL DATE	DELIVERY MODE
			10/27/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/589,859	JOACHIM ET AL.
	Examiner	Art Unit
	GERMAN VIANA DI PRISCO	2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 05 September 2008.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 26-49 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 26-49 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application

6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claims 26-36 and 38-49 are rejected under 35 U.S.C. 102(a) as being anticipated by ETSI TS 125 309 (3GPP TS 25.309 version 6.2.0 Release 6).

Consider claims 26, 38, and 45, ETSI TS 125 309 discloses a method for communicating control information associated to uplink data on an Enhanced Dedicated Channel (E-DCH) of a Universal Mobile Telecommunication System (UMTS), wherein the method is performed by a user equipment and comprises: transmitting via an Enhanced Dedicated Physical Control Channel (E-DPCCH) control information associated to uplink data to a Node B controlling a serving cell, wherein the control information comprises a happy-bit that indicates to the Node B whether or not the user equipment could use more than a maximum amount of uplink resources allowed by scheduling grants for transmitting scheduled uplink data via the E-DCH, and not setting the happy-bit (e.g., not setting the happy bit to “unhappy”), if the user equipment transmits uplink data via the E-DCH without utilizing the maximum amount of uplink resources for scheduled uplink data as allowed by scheduling grants (e.g. the user equipment is satisfied by the current Service Grant, section 9.3.1.2 in page 25).

Consider claims 27 and 39, and as applied to claims 26 and 38 respectively

above, ETSI TS 125 309 discloses not setting the happy- bit if (i.e. not setting the happy bit to “unhappy”) if the UE has not enough power available to transmit at higher data rate (section 9.3.1.2 in page 25).

Consider claims 28 and 40, and as applied to claims 26 and 38 respectively above, ETSI TS 125 309 discloses receiving a scheduling grant setting the maximum amount of uplink resources the user equipment is allowed to utilize for the transmission of scheduled uplink data via the E-DCH from the Node B controlling the serving cell (sections 9.1 and 9.2.1 in pages 20-23).

Consider claim 29 and 41, and as applied to claims 28 and 38 respectively above, ETSI TS 125 309 discloses a scheduling grant that updates a serving grant indicating the maximum power ratio the user equipment is allowed to use for transmissions of scheduled uplink data on the E-DCH (section 9.1, page 21).

Consider claims 30 and 42, and as applied to claims 29 and 41 respectively above, ETSI TS 125 309 discloses that the maximum power ratio defines the power ratio of the E-DPDCH channel and the Dedicated Physical Control Channel (DPCCH) in the UMTS communication system (section 9.1, page 20-21).

Consider claim 31 and 43, and as applied to claims 29 and 41 respectively above, ETSI TS 125 309 discloses that maximum power ratio is used for selecting the appropriate transport format combination (E-TFC) in a transport format selection procedure performed by the user equipment (section 9.2.1, page 22).

Consider claim 32, 44, and 46-49, and as applied to claims 26, 38, 27, 28, 29, and 30 respectively above ETSI TS 125 309 discloses determining the occupancy of a

buffer in the user equipment buffering data to be transmitted via the E-DCH (section 9.3.1.1.1, page 24); setting the happy-bit to request the Node B to increase the uplink resources for uplink data transmissions via the uplink dedicated channel, if all of the following criteria are met: a) the UE has enough power available to transmit at higher data rate, b) the maximum uplink resources set by scheduling grants from the Node B controlling the serving cell require more than a configurable number of transmission time intervals for transmitting buffered uplink data via the E-DCH (section 9.3.1.2, page 25), and c) the user equipment is utilizing the maximum uplink resources set by scheduling grants for scheduled uplink data transmission (if the user equipment is not utilizing the maximum uplink resources set by scheduling grants for scheduled uplink data transmission, the use equipment has no reason to be unhappy).

Consider claim 33, and as applied to claim 26 above ETSI TS 125 309 discloses that the scheduling grant indicates the maximum uplink resources all user equipments controlled by the Node B of the serving cell transmitting data via an E-DCH respectively are allowed to utilize for scheduled uplink data transmissions via the E-DCHs within a transmission time interval (scheduling grants can be sent once per transmission time interval, sections 9.1 and 9.2.1 in pages 20-23).

Consider claim 34, ad as applied to claim 26 above, ETSI TS 125 309 discloses the user equipment being in soft handover between a serving cell controlled by the Node B and a non-serving cell controlled by a Node B, and the method further comprises: transmitting the scheduled uplink data via the E-DCH to the Node B controlling the non- serving cell, and setting the maximum uplink resources the user

equipment is allowed to utilize for scheduled uplink data transmissions via both E-DCHs according to the scheduling grant received from the Node B controlling the serving cell (since the user equipment is in soft handover between a serving cell and a non-serving cell, the scheduled uplink data is received by both the serving and the non-serving cells, however absolute scheduling grants are received only from the Node B controlling the serving cell, section 9.2.1, page 21).

Consider claim 35, and applied to claim 34 ETSI TS 125 309 discloses receiving a relative scheduling grant from the Node B controlling the non-serving cell indicating to decrease the amount of uplink resources utilized by the user equipment, decreasing the amount of uplink resources utilized by the user equipment in response to the relative scheduling grant, and setting the maximum amount of uplink resources to a decreased amount of uplink resources for scheduled uplink data transmission in the next transmission time interval (when receiving a DOWN from the Node B controlling the non-serving cell, section 9.2.2).

Consider claim 36, and as applied to claim 35, above, ETSI TS 125 309 discloses setting the happy-bit (to unhappy) to request the Node B to increase the uplink resources for uplink data transmissions via the uplink dedicated channel, if all of the following criteria are met: a) the power status of the user equipment allows for uplink data transmission via the E-DCH utilizing more uplink resources than the maximum uplink resources set by scheduling grants from the serving cell and/or the non-serving cell, b) the maximum uplink resources set by the scheduling grants requires more than a configurable number of transmission time intervals for transmitting buffered uplink

data via the E-DCH and c) the user equipment is utilizing the maximum uplink resources set by scheduling grants for uplink data transmission(if the user equipment is not utilizing the maximum uplink resources set by scheduling grants for scheduled uplink data transmission, the use equipment has no reason to be unhappy, section 9.3.1.2, page 25).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over ETSI TS 125 309 (3GPP TS 25.309 version 6.2.0 Release 6) in view of 3GPP TSG-RAN WG2 #46, Happy bit with mirroring.

Consider claim 37 and as applied to claim 35 above, ETSI TS 125 309 does not specifically disclose the claimed limitations.

In the same field of endeavor 3GPP TSG-RAN WG2 #46 discloses a transport format indicator indicating the transport format combination used for transmitting scheduled uplink data to the Node B controlling the serving cell within a transmission time interval, wherein the transport format indicator indicates a transport format combination utilizing a lower amount of uplink resources than allowed by the Node B of the serving cell in the scheduling grant, and if the user equipment is transmitting scheduled uplink data via the E-DCH to the Node B controlling the serving cell utilizing the decreased amount of uplink resources, setting the happy- bit in the control information transmitted in the transmission time interval to the Node B controlling the serving cell, wherein the combination of the transport format indicator and the happy-bit in the control information indicates to the Node B controlling the serving cell that the maximum amount of uplink resources has been decreased based on a relative scheduling grant received from the Node B controlling the non-serving cell(Node B can make a distinction by the Happy bit being set to unhappy while the rate is set lower)

(section 2.2 , case 5 in table 3 and paragraph 5).

Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the transport format indicator and the resource request flag as disclosed by 3GPP TSG-RAN WG2 #46 in the teachings of ETSI TS 125 309 in order for the Node B to be able to distinguish the reason why the mobile terminal has power headroom.

Response to Arguments

7. Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any response to this Office Action should be **faxed to (571) 273-8300 or mailed to:**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GERMAN VIANA DI PRISCO whose telephone number is (571)270-1781. The examiner can normally be reached on Monday through Friday 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rafael Perez-Gutierrez can be reached on (571) 272-7915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/German Viana Di Prisco/
Examiner, Art Unit 2617

/Rafael Pérez-Gutiérrez/
Supervisory Patent Examiner, Art Unit 2617

October 21, 2008